



Enabling Grids for E-science



## Status of migration to SourceForge

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[www.eu-egee.org](http://www.eu-egee.org)



Information Society  
and Media



- **All quattor collaborative resources historically located at CERN:**
  - Mailing lists, CVS repository, Savannah bug-tracker
- **Decided to move source repository to SourceForge**
  - Removes need for CERN account
  - Makes it clear that quattor is an open-source community
  - Not dependent on one or two admins
  - Test migration of source code starting with core NCM components
- **SF project “quattor” created during last workshop**
  - Wiki set up: now primary entry point for quattor ([quattor.org](http://quattor.org))
  - Idea is that anyone in community can add content (e.g. case studies)
- **If you want to contribute please send me your SF username (create an account if you don't have one)**

- **Set of core modules decided on**
  - aii,ccm,documentation,ncm-cdispd,ncm-components/core,ncm-components/lcg-2,ncm-components/glite, ncm-components/lib,ncm-ncd,ncm-query, ncm-template,pan-templates,perl-CAF,perl-LC,quattor-build-tools,rpmt-py,spma,util
  
- **Method of exporting CERN CVS tested**
  - Using cvs2svn: allows full history to be transferred to Subversion
  
- **Prototype of build tools with support for SVN**
  
- **Sticking point is integration of build tools**
  - Previously referenced with relative include (../../quattor-build-tools)
  - In SVN, code in branches and tags is a different distance from root
  - Need different solution (see later)

- See <http://quattor.svn.sourceforge.net/viewvc/quattor/> for current
- **Principle: trunk checkout should be same as current CVS**
  - Should be possible to build any product directly
- **SVN handles tags (and branches) differently to CVS**
  - Appear as separate directories in the tree
    - e.g. tags/aii/2.3.3
  - Local tag hierarchy appears *within* products
    - e.g. tags/ncm-components/core/ncm-accounts/3.0.17
  - “Global” or “release” tags currently also appear within products
    - e.g. tags/ncm-components/core/ncm-accounts/quattor\_1\_2
    - Should a release tag contain a tree with tagged products instead?
    - e.g. tags/release/quattor/1.2/ncm-components/core/ncm-accounts
    - Complete tagged release can then be checked out easily
- **Management of tags should be encapsulated in build tools anyway**

- Discussion on mailing list Jul-Aug 2008 decided on including quattor build tools in **every** version of every product's directory
  - Use Subversion's externals feature to pull them in automatically
  - Allows any tag of any product to be checked out and built
  - Problem is speed: now takes **~17 minutes** to update tree!
- **Alternative proposal (Luis) to build tag versions from within trunk**
  - Add `make tag=<tag-name>` option to build tools
    - `svn switch` the current directory to the relevant tag
    - Build component from tagged version
    - `svn switch` back to trunk version
  - **Pros**
    - Build tools not checked out multiple times
    - No impact on frequent use case of building from trunk
  - **Cons**
    - Requires more work by build tools
    - Contents of tags area don't build directly
    - Could be a little confusing

- **Quicker solution that doesn't require build tools changed**
  - Instead of one copy per version per product just put them where needed
    - trunk/ *(for aii, ccm, etc.)*
    - tags/ncm-components *(for tagged components)*
    - tags/aii *(for aii sub-components)*
    - possibly a few more ...
  - **Pros**
    - No extra work in build tools
    - Build tools only checked out a small number of times
    - No impact on frequent use case of building from trunk
    - Can build directly from within tags
  - **Cons**
    - Could be a little confusing having build tools spread around
- **Could do this first, then add previous suggestion**

1. Decide (now) on structure of release tags (if local tags OK?)
  2. Decide (now) on preferred build tools solution
  3. MEP and SC to implement agreed scheme on current SF
  4. Community to test this
  5. Set deadline (before end of year) for making CERN CVS read-only
  6. Make sure all users (especially CERN) are aware of changeover
  7. Re-export contents of CERN CVS to SF and correct structure
  8. Declare SF code repository open for business!
- Track progress at <http://quattor.wiki.sourceforge.net/MigrationToSf>
  - Talk about issue trackers, mailing lists, etc., at next workshop?